INDEX TO VOLUME LX, 1948

PAGE

A History of The United States Navy, by Commodore Dudley Knox, U.S.N. (Book Review) 405
Aluminum Alloy Bearings in Diesel Engines (Note) 232
Association Notes 119, 246, 413, 751
Atomic Power, Engineering (Note) 76
Balsa Life Floats, Decay in and the Value of Brush and Dip Treatments with Chlorinated Phenol for its Prevention, by Arthur S. Rhoads 565
Battlefronts of Industry, Book Review 746
Bearings, Aluminum Alloy, in Diesel Engines (Note) 232
Bearings, Nonmetallic, from Mechanical Engineering, July, 1948 644
Bearings for Propeller Shafting, Self-Aligning (Note) 225
Bird, Albert F., Photoprojection—New Challenge to Shipbuilding 253
Boiler Fuels, Burning in Marine Diesel Engines (Note) 204
Book Reviews:
Fluid Mechanics in Turbo Machinery 244
The Radio Amateur's Handbook (25th Edition) 245
"A History of the United States Navy," by Commodore Dudley Knox, U.S.N. 405
"The Shipbuilding Business in the United States," Edited by F. G. Fassett, Jr. 406
Battle Fronts of Industry 746
Men and Volts at War 746
Engineering Thermodynamics 746
Brasses and Bronzes, High Zinc (Manganese Bronze, Naval Brass, Commercial Brass) Foundry Control Test for Melting by Joseph A. Duma 163
Brazell, N. J., Positioning of Propellers and Shafts 32
Buchi, Dr. Alfred J., Turbo Charging and Gas Turbines 261
Cargo Handling With Overhead Crane Gear, From Alumni Association of U. S. Merchant Marine Cadet Corps 710
Ceramics, Fundamental Research For the Navy In, by R. D. Jackel 552
Conrad, Robert D., Science, The Navy and the Future 1
Cycle and Machinery for Steam Propelled High Speed Surface War Ships, Principles Underlying Choice of, by Rudolph Michel 292

PAGE

Dahl, Andrew I. and Ernest F. Fiock; Use of Thermocouples in High Velocity Gas Streams 149
Diesel Engines of the German Navy, by E. C. Magdeburger 13
Diesel Engines, Marine, Burning Boiler Fuels in (Note) 204
Discussion of "Gas Turbine Performance Characteristics, Design Considerations and Applications", by J. T. Retalliata, in August, 1947, Journal, by F. Nettel 61
Duma, Joseph A.; Foundry Control Test for Melting High Zinc Bronzes and Brasses (Manganese Bronze, Naval Brass, Commercial Brass) 163
Dynamic Strength, by Manley St. Denis 505
Endurance Properties of Steels, Effects of Inclusions on, by William C. Stewart and W. Lee Williams 475
Ethics for Engineers. Canons for (Note) 197
Explosions, Non-Contact, Effect of on Warship Machinery Design (Note) 365
Fahy, Edward J.; A New Consideration for Warship Design 431
Failure, Structural, of a Riveted Ship (Note) 230
Fay, James A.; A Method of Determining the Natural Frequencies of Bending Vibration of Uniform Beams 310
Fiock, Ernest F. and Andrew I. Dahl; Use of Thermocouples in High Velocity Gas Streams 149
Fischer, Alfred W., Analysis of a Ship's Frame by Superposition 541
Flame Hardening, Principles, Applications and Equipment, from The Welding Journal, June, 1948 718
Flow Problems, Law of Similitudes for (Note) 110
"Fluid Mechanics in Turbo Machinery" (Book Review) 244
Foundry Control Test for Melting High Zinc Bronzes and Brasses (Manganese Bronze, Naval Brass, Commercial Brass), by Joseph A. Duma 163
Gas Turbine, First Marine in Service (Note) 67
"Gas Turbine Performance Characteristics, Design Considerations and Applications", by J. T. Retalliata, in August, 1947, Journal. Discussion of by F. Nettel 61
Gas Turbines and Turbo Charging, by Dr. Alfred J. Buchi 261
German U-Boat Design and Production, from Journal of Royal United Service Institution, May, 1948 599
Harwood, Julius J., Metallurgical Tracers and Naval Research 49
Titanium—A Modern Metal 443

PAGE

Hirschberger, C. R. and Frank C. Jones, Propeller Characteristics Under Non-Axial Flow 461
Humidity, Controlled, in Long Time Preservation, Importance of, by George C. Wells 127
Industrial Planning, Long-Range (Note) 388
Jackel, R. D., Fundamental Research for the Navy in Ceramics 552
Jones, Claud A., Rear Admiral, U.S.N., Obituary 741
Jones, Frank C., and C. R. Hirschberger, Propeller Characteristics Under Non-Axial Flow 461
Leahy, Wm. H., The Navy in Research 179
Lubricating Oil Contaminants, Practical Engine Room Tests of, from Motorship, June, 1948 691
Machinery Design, Warship, Effect of Non-Contact Explosions on (Note) 365
Magdeburger, E. C., Diesel Engines of the German Navy 13
Marine Reduction Gears, Importance of Design Factors for, by W. G. Stoeckicht 332
Men and Volts at War (Book Review) 746
Michel, Rudolph, Principles Underlying Choice of a Cycle and Machinery for Steam Propelled High Speed Surface Warships 292
Motorship, America's Highest-Powered (Note) 210
Natural Frequencies of Bending Vibration of Uniform Beams, Method of Determining, by James A. Fay 310
Nettel, F., Discussion of "Gas Turbine Performance Characteristics, Design Considerations and Applications", by J. T. Retalliata, in August, 1947, Journal 64
New Members 747
Obituary:
Rear Admiral Claud A. Jones, U.S.N. 741
Thomas B. Stillman 744
Photoprojection—New Challenge to Shipbuilding Tradition, by Albert F. Bird 253
Planetary Gears, Some Advantages of, by W. G. Stoeckicht 169
Power Plants, Marine, of the Future, from Marine News, May, 1948 627
Preservation, Long Time, Importance of Controlled Humidity in, by George C. Wells 127
Propellers and Shafts, Positioning of, by N. J. Brazell 32
Propeller Characteristics Under Non-Axial Flow, by Frank C. Jones and C. R. Hirschberger 461

PAGE

Pumps, Centrifugal and Other Non-Positive, from Institute of Mechanical Engineers Journal and Proceedings, June, 1948 673
Radial Engine, Nordberg, from Motorship, July, 1948 726
Radio Amateur's Handbook (25th Edition) (Book Review) 245
Radiography as a Control for Welding Joints in Pipe Lines (Note) 401
Research, The Navy in, by Wm. H. Leahy 179
Rhoads, Arthur S., Decay in Balsa Life Floats and the Value of Brush and Dip Treatments with Chlorinated Phenol for Its Prevention 565
St. Denis, Manley, Dynamic Strength 505
Science, The Navy and the Future, by Robert D. Conrad 1
Shafts and Propellers, Positioning of, by N. J. Brazell 32
Shafting, Marine Propeller, Longitudinal Vibration of (Note) 341
Shearing Stress Distribution in Box Girders with Multiple Webs (Note) 238
Ship's Frame, Analysis of by Superposition, by Alfred W. Fischer 541
Ship's Stability at Sea, Method for the Determination of from Society of Naval Architects and Marine Engineers, May, 1948 731
Ship Vibration, Fundamentals of (Note) 80
Steam, Present Position of, from The Marine Engineer, Steam Number, 1948 641
Steam Propelled High Speed Surface War Ships, Principles Underlying Choice of Cycle and Machinery For, by Rudolph Michel 292
Steels, Effects of Inclusions on Endurance Properties of, by William C. Stewart and W. Lee Williams 475
Stewart, William C. and W. Lee Williams; Effects of Inclusions on the Endurance Properties of Steels 475
Stillman, Thomas B., Obituary 744
Stoeckicht, W. G.,
Some Advantages of Planetary Gears 169
Importance of Design Factors for Marine Reduction Gears 332
Structural Failure of a Riveted Ship (Note) 230
"The Shipbuilding Business in the United States", Edited by F. G. Fassett, Jr. (Book Review) 406
Thermocouples, Use of in High-Velocity Gas Streams, by Ernest F. Fiock and Andrew I. Dahl 139
Titanium—A Modern Metal, by Julius J. Harwood 443
Tracers, Metallurgical, and Naval Research, by Julius J. Harwood 49
Tubing, What the User Should Know About, from Machinery, February, 1948 701
Turbo Charging and Gas Turbines, by Dr. Alfred J. Buchi 261
Vibration, Longitudinal, of Marine Propeller Shafting (Note) 341

PAGE

Vibration, Ship, Fundamentals of (Note) 80
"Walking Barge" (Note) 236
Warship Design, A New Consideration for, by Edward J. Fahy 431
Welding Joints in Pipe Lines, Radiography as a Control of (Note) 401
Welding Techniques for Cast Iron (Note) 198
Wells, George C., Importance of Controlled Humidity in Long Time Preservation 127
Williams, W. Lee, and William C. Stewart, Effects of Inclusions on the Endurance Properties of Steels 475